

Title (en)
DEVICE EMPLOYING A TENSILE FORCE METER FOR MEASURING TENSILE FORCE

Publication
EP 0305484 B1 19910703 (DE)

Application
EP 88902832 A 19880316

Priority
DE 3708748 A 19870318

Abstract (en)
[origin: WO8807184A1] Device for measuring tensile force, which is measured during cable laying with the aid of a tensile force meter (5) disposed between the cable (10) and a steel tension cable (11). Said meter comprises a wire strain gauge and a measurement switching circuit, the latter amplifying signals received from the force measuring sensor and converting them to frequency modulated measurement signals proportional to the tensile force. These are passed to a measurement receiver (22) disposed in the region of a winding reel (20), a first lead to the measurement receiver (22) incorporating the tension cable (11), a second lead incorporating the earth (24). The output of the measurement switching circuit, connected with the lead which passes via the earth (24), has a measurement signal carrier frequency of 3 ... 100 kHz, and transmits signals via the earth to the measurement receiver (22) by means of a capacitive coupling (C1, C2, C3) electrically separated from the earth. The cable drawing device (23) and a plate electrode (26) in particular perform the capacitive coupling.

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G01L 5/10

IPC 8 full level
G01L 5/04 (2006.01); **G01L 5/10** (2006.01); **G08C 19/00** (2006.01); **H04B 3/00** (2006.01)

CPC (source: EP US)
G01L 5/047 (2013.01 - EP US); **G01L 5/101** (2013.01 - EP US)

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